

## **Materials Division (RM)**

Plans, conducts and directs research and technology efforts on advanced high temperature materials and processes for future aerospace propulsion and power generation systems. Primary emphasis is on high temperature composite materials. The materials of current major interest include polymer and polymer matrix composites, intermetallics, copper-nickel- and titanium-based alloys and ceramics and ceramic-matrix composites.

Advanced processes of current interest include polymer synthesis, rapid solidification, plasma spraying, powder processing, surface coatings and appropriate computational materials science modeling support. Advanced chemical, surface and microstructural characterization capabilities support all of these efforts.

